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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,446	10/06/2003	Grant H. Kobayashi	42P15733	1194

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EXAMINER

LEE, CHRISTOPHER E

ART UNIT PAPER NUMBER

2112

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/681,446	Applicant(s) KOBAYASHI ET AL.	
	Examiner Christopher E. Lee	Art Unit 2112	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-61 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-25, 32-39 and 45-53 is/are allowed.
- 6) ☒ Claim(s) 40-44 is/are rejected.
- 7) ☒ Claim(s) 26-31 and 54-61 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/18/05, 10/6/03</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION***Information Disclosure Statement***

1. The information disclosure statement filed on 18th of March 2005 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicants' use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

(a) TITLE OF THE INVENTION.

(b) CROSS-REFERENCE TO RELATED APPLICATIONS.

(c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.

(d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT

(e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

(f) BACKGROUND OF THE INVENTION.

(1) Field of the Invention.

(2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.

(g) BRIEF SUMMARY OF THE INVENTION.

(h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

(i) DETAILED DESCRIPTION OF THE INVENTION.

(j) CLAIM OR CLAIMS (commencing on a separate sheet).

(k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

(l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as

defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

In this case, the specification does not arrange BRIEF SUMMARY OF THE INVENTION before BRIEF

5 DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS on page 4.

3. The disclosure is objected to because of the following informalities:

Substitute "signal" by --single-- in line 7 on paragraph [0023].

Appropriate correction is required.

Drawings

10 4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description:

The reference sign "115" in Fig. 1 is not used in the specification.

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in
15 reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required
20 corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claims 26 and 54 are objected to because of the following informalities:

In the claim 26, substitute "an system" in line 2, by --a system--.

In the claim 54, substitute "An system" in line 1, by --A system--.

25 Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 40-44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim 40 recites the two different subject matters "a first SMI" in line 2, which is generated by a controller, and in lines 3-4, which is generated by a first logical processor, respectively. However, it recalls the subject matter "the first SMI" in lines 4-6 without designating which one of the two different subject matters. Therefore, it fails to clearly point out which one of the two different subject matters is the antecedent basis of the recalled subject matter "the first SMI" in lines 4-6, and then it makes the claim 40 be indefinite. The claims 41-44 are dependent claims 40.

Allowable Subject Matter

8. Claims 1-25, 32-39, and 45-53 are allowed.

9. Claims 26-31 and 54-61 would be allowable if rewritten or amended to overcome the claim objections under minor informality, set forth in this Office action.

10. Claims 40-44 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

11. The following is a statement of reasons for the indication of allowable subject matter:

With respect to claims 1, 12, 26, 32, 40, 45, and 54, the claim limitations of the respective claims are deemed allowable over the prior art of record as the prior art fails to teach or suggest that (1) executing a SMI handler to handle a SMI for a first processor, and (2) executing the SMI handler to handle the SMI for a second processor.

The claims 2-11 are dependent claims of the claim 1.

The claims 13-25 are dependent claims of the claim 12.

The claims 27-31 are dependent claims of the claim 26.

The claims 33-39 are dependent claims of the claim 32.

The claims 41-44 are dependent claims of the claim 40.

5 The claims 46-53 are dependent claims of the claim 45.

The claims 55-61 are dependent claims of the claim 54.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huang [US 6,711,642 B2] discloses method and chipset for system management mode interrupt
10 of multi-processor supporting system.

Tyner et al. [US 6,272,618 B1] disclose system and method for handling interrupts in a multi-processor computer.

Zimmer et al. [US 2003/0093579 A1] disclose method and system for concurrent handler execution in an SMI and PMI-based dispatch-execution framework.

15 Goodman et al. [US 6,282,601 B1] disclose multiprocessor data processing system and method of interrupt handling that facilitate identification of a processor requesting a system management interrupt.

Nguyen et al. [US 2002/0099893 A1] disclose system and method for the handling of system management interrupts in a multiprocessor computer system.

20 Brock et al. [US 6,836,849 B2] disclose method and apparatus for controlling power and performance in a multiprocessing system according to customer level operational requirements.

Haren et al. [US 6,192,442 B1] interrupt controller.

Scott et al. [US 6,615,329 B2] disclose memory access control system, apparatus, and method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E. Lee whose telephone number is 571-272-3637. The examiner can normally be reached on 9:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

- 5 Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available
10 through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher E. Lee
Examiner
Art Unit 2112

15 CEL/

